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(54) THERMOPLASTIC ELASTOMER COMPOSITION AND PNEUMATIC TIRE PREPARED BY USING SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a thermoplastic elastomer composition improved in heat resistance, durability, and air permeation resistance as well without detriment to flexibility.

SOLUTION: A nylon resin having a melting point of 170-230°C and an elastomer containing a product of halogenation of an isobutylene/p-methylstyrene copolymer are dynamically vulcanized to a gel fraction of 50-95%. Desirably the nylon resin comprises nylon 11 or 12 and a nylon 6/66 copolymer in a compositional ratio of 10/90 to 90/10. This composition can be effectively utilized for air permeation preventive layers of pneumatic tires.

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